AMENDMENT TO THE CONTRACT FOR PROFESSIONAL DESIGN AND CONSULTING SERVICES FOR MAPLEWOOD AND BEECHWOOD CEMETERIES FACILITIES AND SITE IMPROVEMENT STUDY

This contract amendment ("Amendment") is dated and entered into as of the 8th day of December, 2014, between COULTER JEWELL THAMES, PA ("Contractor") and City of Durham ("City" or "Owner").

BACKGROUND. The City and the Contractor entered into a contract titled "PROFESSIONAL DESIGN AND CONSULTING SERVICES FOR MAPLEWOOD AND BEECHWOOD CEMETERIES FACILITIES AND SITE IMPROVEMENT STUDY", dated March 4, 2013. That contract is referred to as the "Original Contract." The Original Contract is hereby amended as follows:

1. Insert the following after the original payment schedule in Article 11.2.1 <u>Basic</u> Compensation:

The total not to exceed amount of \$46,300.00 is hereby increased by a lump sum of One Hundred Forty-Eight Thousand, Nine Hundred Fifty dollars (\$148,950.00) for full design services, and a not-to-exceed allowance amount of Fifty-Three Thousand, One Hundred and Thirty dollars (\$53,130.00) for additional services, for a revised total not to exceed amount of \$248,380.00. Compensation for this Amendment will be billed hourly according to rates contained in the "Exhibit A."

2. Exhibit A - Scope of Work: Design and Consulting Services for Maplewood and Beechwood Cemeteries Facilities and Site Improvements Study, is amended as follows:

Insert the following section at the end of the Basic Services section of Exhibit A:

10. Amendment 1 Basic Services for this project shall include the following services:

10.1 PROJECT DESCRIPTION - Maplewood Cemetery:

Preparation and submittal of concept plan through construction administration for improvements at Maplewood Cemetery including:

- Entry columns, new signage and security gates at the University Drive entry, associated driveway narrowing, sidewalk repair, sidewalk accessibility to the office, additional office parking, and associated landscaping, and lighting from the entry to the office.
- Security gates at four secondary entries with improvements to driveway aprons and associated landscaping. These four entries include the east side of Chapel Hill Road between sections R and U, the entry off the west side of Kent Street between sections W and T, the entry off the east side of Kent Street between sections N and K, and the entry off the east side of Kent Street between sections A and C.
- Relocation of the existing entry on the west side of Chapel Hill Rd, including gates and repair of abandoned driveway This access relocation is not to disturb any existing burial sites.
- Asphalt road replacement in selected stretches throughout cemetery (based on existing conditions as documented in the 2014 study)

- Gravel road repair in historic sections of Maplewood Cemetery
- Designation of spaces for soil storage and trash handling. Anticipated that this will be covered storage in an open roofed structure with appropriate vehicular access and screening.
- Renovation to the existing office space to accommodate handicap accessible toilet facilities and drinking fountain per code.
- New 3,000 sf prefab maintenance building and associated site work to situate building and meet City of Durham requirements.
- Additional improvements required by regulatory agencies as necessary to gain approvals.
- 1 storm bmp in area of new buildings
- Investigate best water and sanitary sewer service option for the new maintenance building.
- One Level 3 Site Plan review and approval process. The scope of work will be shown in phases.

10.2 PROJECT DESCRIPTION – Beechwood Cemetery:

Preparation and submittal of concept plan through construction administration for improvements at Beechwood Cemetery including:

- Entry columns, new signage and security gates at the main Fayetteville Road entry, with associated sidewalk accessibility to the office, additional office parking, and associated landscaping.
- Creation of a separate service area in the northwest corner of the cemetery for soil storage, trash handling. Much of the soil material storage will be in an open roofed structure. Appropriate vehicular access and screening.
- Asphalt pavement repair in select sections throughout the cemetery, based on those areas identified in the 2014 study.
- Miscellaneous signage and ground stabilization for small disturbed patches throughout cemetery.
- New canopy covered area for non-graveside services. This will include associated parking and accessibility improvements.
- One Level 2 Site Plan review and approval process. The scope of work will be shown in phases.
- Additional improvements required by regulatory agencies as necessary to gain approvals.

Scope of Amendment 1 Basic Services:

The Consultant shall provide the following limited basic services. Sub consultant Roughton Nickelson DeLuca architect will provide architectural services along with their sub-consultants.

Task 1: Surveying

1a. Topographic Surveying – Maplewood Cemetery

- 1.1 Prepare a topographic and physical survey of visible conditions and known underground utilities as marked by NC 811. Survey area will be limited to project areas as shown on the plan attached to this proposal.
- 1.2 Partial right of way and topographic survey for the immediate project area.

1.3 Road width verification in areas where road repair will be done

1b. Topographic Surveying – Beechwood Cemetery

- 1.4 Prepare a topographic and physical survey of visible conditions and known underground utilities as marked by NC 811. Survey area will be limited to project areas as shown on the plan attached to this proposal.
- 1.5 Partial right of way and topographic survey for the immediate project area.

Task 2: Schematic Design

2a. Schematic Design – Maplewood Cemetery

- 2.1 Layout scope items as outlined in Project Description.
- 2.2 Investigate best water and sanitary sewer service option for new maintenance building.
- 2.3 Schematic design of new 3000 sf maintenance facility and associated parking in new service area.
- 2.4 Schematic design of new trash and soil handling area.
- 2.5 Review necessity of automated gates at secondary entries. Final determination of which gates will be automated (requiring electrical service) and which gates will be manual.

2b. Schematic Design – Beechwood Cemetery

- 2.5 Layout scope items as outlined in Project Description.
- 2.6 Schematic design of new covered burial service pavilion and associated parking and walkways.
- 2.7 Schematic design of new trash and soil handling area.

Task 3: Design Development / Site Plan Approval

3a Design Development Drawings / Site Plan Approval – Maplewood Cemetery

After Client has signed off on schematic design, the design development drawings will be initiated for submittal to the City of Durham for site plan approval.

- 3.1 Design Development Drawings/Site Plan Approval Maplewood Cemetery Prepare 50% site drawings showing the following:
 - Existing conditions
 - Demolition plan
 - Layout of site improvements including building footprints and elevations as required for City review
 - Preliminary grading plan. If a storm BMP is required, see item 6.
 - Stormwater impact analysis.
 - Preliminary lighting plan (assumes Duke Energy lease lights will be used)
 - Preliminary landscape plan in all project areas
 - Preliminary details of gates and columns at the University Drive entry
 - Preliminary electrical plans (calling out need for conduit and meters, indicating electrical element locations)
 - New building elevations as needed for City review
- 3.2 Meet with Owner and get design sign off prior to City approval process submittal
- 3.3 It is anticipated that the project will need a Level 3 Site Plan approval. These drawings would be sufficiently detailed for the site plan review process.

- 3.4 Site plan submittal and revisions for approval.
- 3.5 Compliance with all design criteria established by local, state, and federal regulatory agencies, including design of 1 stormwater BMP at Maplewood Cemetery.
- 3.6 Preliminary cost estimate to establish construction budget
- 3.7 Project meetings.

3b Design Development Drawings / Site Plan Approval – Beechwood Cemetery

After Client has signed off on schematic design, the design development drawings will be initiated for submittal to the City of Durham for site plan approval.

- 3.8 Design Development Drawings/Site Plan Approval Beechwood Cemetery Prepare 50% site drawings showing the following:
 - Existing conditions
 - Demolition plan
 - Layout of site improvements including building footprints and elevations for service pavilion and soil/trash handling structure as required for City review
 - Preliminary grading plan. If a storm BMP is required, see Task 6.
 - Stormwater impact analysis.
 - Preliminary lighting plan (assumes Duke Energy lease lights will be used)
 - Preliminary landscape plan at the University Drive entry
 - Preliminary details of gates and columns at the University Drive entry
 - Preliminary electrical plans (calling out need for conduit and meters, indicating electrical element locations)
- 3.9 Meet with Owner and get design sign-off prior to City approval process submittal
- 3.10 It is anticipated that the project will need a Level 2 Site Plan approval. These drawings would be sufficiently detailed for the site plan review process.
- 3.11 Site plan submittal and revisions for approval.
- 3.12 Compliance with all design criteria established by local, state, and federal regulatory agencies, including design of 1 stormwater BMP at Maplewood Cemetery.
- 3.13 Preliminary cost estimate to establish construction budget

Task 4: Construction Documentation

4a Construction Documentation – Maplewood Cemetery

- 4.1 Prepare plans, specifications and support calculations suitable for approvals, pricing, and construction excluding any street improvements required by the City of Durham.
 - Demolition plan
 - Site layout plan
 - Pavement rehabilitation plan
 - Grading and drainage plan (see Task 6 for BMP design)
 - Water and sewer service connection plan
 - Landscape plan
 - New columns, gates, and signage plus vehicular and pedestrian pavement alterations and improvements at the University Drive entry

- New columns, gates and signage plus vehicular pavement improvements at the secondary entries.
- Electrical circuit design drawings for gate operators for the University Drive entry
- Electrical circuit design drawings for gate operators for secondary entries if chosen by Owner this is an allowance in the fee schedule
- Building plans and elevations including PM&E and structural design details
- Construction details
- Technical Specifications
- 4.2 Submit CD package, including construction cost estimate, to Owner for approval prior to any formal City approval process submittals.

4b Construction Documentation – Beechwood Cemetery

- 4.3 Prepare plans, specifications and support calculations suitable for approvals, pricing, and construction excluding any street improvements required by the City of Durham.
 - 4.3.1 Demolition plan
 - 4.3.2 Site layout plan
 - 4.3.3 Pavement rehabilitation plan
 - 4.3.4 Grading and drainage plan (see Task 6 for BMP design)
 - 4.3.5 Water and sewer service connection plan
 - 4.3.6 Landscape plan
 - 4.3.7 Building plans and elevations for service pavilion and for soil and trash handling facility, including PM&E and structural design details
 - 4.3.8 Construction details
 - 4.3.9 Technical Specifications
- 4.4 Submit CD package, including construction cost estimate, to Owner for approval prior to any formal City approval process submittals

Task 5: Permitting and Regulatory Approvals

5a Permitting and Approvals – Maplewood Cemetery

5.1 Provide plans and applications for regulatory approvals including Construction Drawing application through City of Durham Public Works, right of way encroachment agreements through NC DOT and City of Durham, and erosion control permit through NC DENR.

5b Permitting and Approvals – Beechwood Cemetery

5.2 Provide plans and applications for regulatory approvals including Construction Drawing application through City of Durham Public Works, right of way encroachment agreements through NC DOT, and erosion control permit through NC DENR.

Task 6: Storm BMP Design and Permitting – Maplewood Cemetery

6a BMP Design and Permitting – Maplewood Cemetery

Design, permitting, additional as-built surveying, and Record drawings/certification of one above ground stormwater management (SWM) pond or similar device at Maplewood Cemetery.

- 6.1 Prepare additional drawings, calculations and support data for the Site Plan Phase
- 6.2 Prepare additional drawings, details and specifications necessary for CD's and regulatory permitting
- 6.3 Provide additional Construction Observation phase services
- 6.4 Provide field surveying to determine as-built configuration of SWM
- Provide Record Drawings and Certifications to Durham Public Works as required for sign off from Public Works.

6b BMP Design and Permitting – Maplewood Cemetery

Design, permitting, additional as-built surveying, and Record drawings/certification of one stormwater management device (SWM) at Beechwood Cemetery.

- 6.6 Prepare additional drawings, calculations and support data for the Site Plan Phase
- 6.7 Prepare additional drawings, details and specifications necessary for CD's and regulatory permitting
- 6.8 Provide additional Construction Observation phase services
- 6.9 Provide field surveying to determine as-built configuration of SWM
- 6.10 Provide Record Drawings and Certifications to Durham Public Works as required for sign off from Public Works.

Task 7: Bidding and Negotiation

This task assumes client takes the lead on bidding and advertising.

7a Bidding and Negotiation – Maplewood Cemetery

- 7.1 Prepare a bid manual using front end documents provided by Owner
- 7.2 Attend and document a pre-bid meeting (1)
- 7.3 Issue addendums and clarifications as needed
- 7.4 Attend one (1) bid opening

7b Bidding and Negotiation – Beechwood Cemetery

- 7.5 Prepare a bid manual using front end documents provided by Owner
- 7.6 Attend and document a pre-bid meeting (1)
- 7.7 Issue addendums and clarifications as needed
- 7.8 Attend one (1) bid opening

<u>Task 8: Construction Observation</u>

8a Construction Observation – Maplewood Cemetery

8.1 Make site visits, coordinate, run and document bi-weekly project construction meetings, and provide clarification drawings while the site construction is in progress to assist the contractor in interpreting the contract documents and to ascertain the contractor's conformance with plans, and inform the Owner of any discrepancies. Scope assumes an 8 month construction duration. Allowance for 8 additional progress meetings over the course of construction.

- 8.2 Provide field reports
- 8.3 Review project site submittals and change orders.
- 8.4 Review contractor applications for payment
- 8.5 Review warranty and operation manuals
- 8.6 Perform substantial completion and final completion inspections.
- 8.7 Review of final contractor pay application
- 8.8 Closeout drawings provided to Owner

8b Construction Observation – Beechwood Cemetery

- 8.9 Make site visits, coordinate, run and document bi-weekly project construction meetings, and provide clarification drawings while the site construction is in progress to assist the contractor in interpreting the contract documents and to ascertain the contractor's conformance with plans, and inform the Owner of any discrepancies. Scope assumes a 4 month construction duration.
- 8.10 Provide field reports
- 8.11 Review project site submittals and change orders.
- 8.12 Review contractor applications for payment.
- 8.13 Review warranty and operation manuals.
- 8.14 Perform substantial completion and final completion inspections.
- 8.15 Review of final contractor pay application.
- 8.16 Closeout drawings provided to Owner.

Task 9: Additional Services

Additional Services not included in Basic Scope of Services, which can be performed at the direction of the Owner. In addition to the foregoing being performed, the following services may be provided upon authorization of the Owner:

- Full boundary survey
- Additional topographic surveying beyond that described in Tasks 1a, 1b, and
 6.
- Retaining wall design
- Geotechnical investigation and reports during construction phase
- Laboratory tests, borings, specialized geological, hydraulic or other studies recommended by the Consultant or required by the State
- Assistance in negotiating for land and easement rights.
- Redesigns directed by the Client or other agencies after Site Plans have been submitted. Site plan will not be initially submitted until Owner has reviewed and approved them.
- Significant redesigns directed by the Client or other agencies after Construction Drawings have been submitted to Public Works.
- Redesigns directed by the Client or other agencies after final plans have been accepted by the Client.
- Re-designs due to unknown or unanticipated field problems including, but not limited to unsuitable soil and undiscovered utilities.
- Environmental Issues
- Wetlands delineation and permitting
- Design of water and/or Sewer main utility extension
- Design of road improvements other than driveway connections

- Traffic Studies
- Storm water studies or underground storm drainage design except as outlined in Task 6.
- As-Built record documents requiring survey or PE certification except as outlined in Task 6.
- Any modifications to the Site drawings other than those described in Tasks 1 through 8 above
- Building permits
- 3. In Exhibit A Scope of Work: Design and Consulting Services for Maplewood and Beechwood Cemeteries Facilities and Site Improvements Study, Section II. Preliminary Project Design Schedule Summary, add the below preliminary design schedule at the end of Section II:

The following Amendment #1 projected schedule includes City review periods required to complete the work. The major project milestones include the following:

Milestone Both Cemetery Sites:	Duration
Schematic Design Phase -Includes Surveys	7 weeks
Design Development Phase -Includes Site Plan Submittal and Approval	41 weeks
Construction Documentation Phase	20 weeks
Bidding and Negotiation Phase	12 weeks
Construction Observation and Closeout Phase	49 weeks

The estimated duration of the project is 129 weeks. This is a preliminary schedule and will be updated by the architect at the beginning of the project and at the completion of each phase.

4. In Exhibit A - Scope of Work: Design and Consulting Services for Maplewood and Beechwood Cemeteries Facilities and Site Improvements Study, Section III. Compensation, delete the existing table and replace with the following the Phase and Fee Schedule chart:

Original Contract Fee Schedule:

Phase	Percentage	Base Contract Amount	Not to Exceed Allowance Amount
Site Investigation and Analysis	%	\$16,700	
Phase			

Geotechnical Investigation	%		\$4,000
Concept Design Phase	%	\$13,600	
Scope of Work Prioritization	%		
and Cost Estimation Phase			
Cost Estimation Phase	%	\$6,500	
Phase I Study Documentation Phase	%	\$5,500	
Total Basic Compensation	100%	\$42,300.00	
Total Not to Exceed Allowances	100%		\$4,000
Total Contract Value			\$46,300.00

Amendment #1 Fee Schedule:

Task		Base Contract Amount	Not to Exceed Allowance Amount
SCHEM	ATIC DESIGN PHASE- 13%		
Task 1a	Limited Surveying – Maplewood Cemetery		\$ 2,950
Task 1b	Limited Surveying – Beechwood Cemetery		\$ 2,400
Task 2a	Schematic Design - Maplewood	\$ 12,600	
	Allowance for Pavement Geotechnical Testin	g	\$ 2,000
Task 2b	Schematic Design – Beechwood	\$ 4,390	
	Allowance for Pavement Geotechnical Testin	g	\$ 2,000
Sche	matic Design Subtotals	\$16,990	\$ 9,350

DESIGN	DEVELOPMENT PHASE – 22.5%		
Task 3a	Design Development/Site Plan Approval-Maplewood	\$ 29,950	
	Allowance for environmental testing		\$ 3,500
Task 3b	Design Development/Site Plan Approval-Beechwood	\$ 11,950	
Desig	n Development Subtotals	\$ 41,900	\$ 3,500
CONSTR	RUCTION DOCUMENTATION PHASE – 40%		
Task 4a	Construction Documentation – Maplewood	\$ 30,490	
	Allowance for Elec. Drawings secondary entries		\$ 2,000
Task 4b	Construction Documentation – Beechwood	\$ 12,390	
Task 5a	Permitting/Regulatory Approvals – Maplewood		\$ 2,640
Task 5b	Permitting and Regulatory Approvals - Beechwood		\$ 2,640
Task 6a	Stormwater Design/CA/Certification – Maplewood		\$ 15,000
Task 6b	Stormwater Design/CA/Certification – Beechwood		\$ 15,000
Cons	truction Documentation Subtotals	\$ 42,880	\$ 37,280

BIDDIN	G AND NEGOTIATION PHASE – 3.5%			
Task 7a	Bidding and Negotiation - Maplewood	\$	3,500	
Task 7b	Bidding and Negotiation - Beechwood	\$	3,500	
Bidd	ling and Negotiation Subtotals	\$	7,000	
CONST	RUCTION OBSERVATION/CLOSEOUT PHASI	E – 21	1%	
Task 8a	Construction Observation/Closeout-Maplewood	\$:	29,300	
	Allowance for 4 add'l progress meetings-Maplewo	ood		\$ 2,000
Task 8b	Construction Observation/Closeout-Beechwood	\$	10,880	
	Allowance for 2 add'l progress meetings-Beechwo	ood		\$ 1,000
Con	struction Observation/Closeout Subtotals	\$	40,180	\$ 3,000
Fee	Subtotal:	\$1	48,950	\$ 53,130
Total An	nendment #1 Value:	\$2	02,080	

5. In Exhibit A - Scope of Work: Design and Consulting Services for Maplewood and Beechwood Cemeteries Facilities and Site Improvements Study, Section IV. Consultant Hourly Rates, deleted the section in its entirety and replace with the following:

Additional Services shall require an amendment to the contract and shall be billed on a not-to-exceed basis, in accordance with the hourly rates set forth in this Section. Additional services shall not be performed by the Architect without express prior approval from the Owner. The use of Allowances must be based on the hourly rates set forth in this Section and require prior written approval from the Owner.

Coulter Jewell Thames, PA

Standard Hourly Rates

Principal Engineer/Landscape Architect/Surveyor\$ 140.0	00/hour
Licensed Professional Engineer \$ 125.0	00/hour
Licensed Professional Landscape Architect	00/hour
Licensed Professional Surveyor\$ 115.0	00/hour
2-man Survey Crew	00/hour
1-man Survey Crew	00/hour
Associate Landscape Architect \$ 95.0	00/hour
Engineer-in-training \$ 95.0	00/hour
Field Inspector\$ 75.0	00/hour
AutoCAD/Survey Technician\$ 80.0	00/hour
Secretarial \$ 35.0	00/hour

6. All terms and conditions of the Original Contract not modified by this Amendment still remain in full force and effect.

IN WITNESS WHEREOF, the City and the Contractor have caused this contract to be executed under seal themselves or by their respective duly authorized agents or officers.

ATTEST:	CITY OF DUR	RHAM
	By:	
Pre-audit certificate, if necessary		
	COULTER JEWELL	·
		(SEAL)
[The following officers may sign fo vice-president; assistant vice-presid		president; chief executive officer
State of		BY CORPORATION
I, a notary public in and for the afore		rsonally appeared before me this
day and stated that he or she is (strike through the inapplicable:) cl vice-president/ treasurer/ chief finan by authority duly given and as the ac contract or agreement with the City	cial officer of Coulter Jewell Thar et of the corporation, he or she signe	mes, P.A. a corporation, and that d, under seal, the foregoing
My commission expires:	Notary	Public